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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/509,268	09/27/2004	Stefan Berg	100632-1P US	5329

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ASTRA ZENECA PHARMACEUTICALS LP  
GLOBAL INTELLECTUAL PROPERTY  
1800 CONCORD PIKE  
WILMINGTON, DE 19850-5437

EXAMINER
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CHUNG, SUSANNAH LEE

ART UNIT	PAPER NUMBER
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1626

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
31 DAYS	02/01/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/509,268

Applicant(s)

BERG ET AL.

Examiner

Susannah Chung

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 24 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-10, 18-40 and 42-49 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☒ Claim(s) 1-10, 18-40 and 42-49 are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

Claims 1-10, 18-40, and 42-49 are currently pending in the instant application and are subject to the following new lack of unity requirement. Claims 11-17 and 41 have been canceled by preliminary amendment filed on 9/27/2004.

#### ***Election/Restrictions***

Restriction is required under 35 U.S.C. 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Claims 1-10, 18-40, and 42-49 are drawn to more than one inventive concept (as defined in PCT Rule 13), and accordingly, a restriction is required according to the provision of PCT Rule 13.2

PCT Rule 13.2 states that the international application shall relate to one invention only or to a group of inventions so linked as to form a general inventive concept (requirement of unity of invention).

PCT Rule 13.2 states that unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features.

Due to the numerous and widely divergent variables in the compound of formula (Ia) and (Ib), for example P, X1, R2, R3, R4, R5, R6, m, n, 5- or 6-membered heteroaromatic ring, etc., a precise listing of inventive groups cannot be made. The following groups are exemplary:

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Group I: Claims 1-10, 25-40, and 42-49 drawn to products of the compound of formula (Ia) wherein **P** is 6-membered heteroaromatic ring, containing one nitrogen, **R2** and **R3** are halogen, and **m** and **n** are 1.

Group II: Claims 1-10, 25-40, and 42-49 drawn to products of the compound of formula (Ia) wherein **P** is 6-membered heteroaromatic ring, containing two nitrogens, **R2** and **R3** are halogen, and **m** and **n** are 1.

Group III: Claims 1-10, 25-40, and 42-49 drawn to products of the compound of formula (Ia) wherein **P** is 6-membered heteroaromatic ring, containing one nitrogen and one oxygen, **R2** and **R3** are halogen, and **m** and **n** are 1.

Group IV: Claims 1-10, 25-40, and 42-49 drawn to products of the compound of formula (Ia) wherein **P** is 5-membered heteroaromatic ring, containing one nitrogen, **R2** and **R3** are halogen, and **m** and **n** are 1.

Group V: Claims 1-10, 25-40, and 42-49 drawn to products of the compound of formula (Ia) wherein **P** is 5-membered heteroaromatic ring, containing two nitrogens, **R2** and **R3** are halogen, and **m** and **n** are 1.

Group VI: Claims 1-10, 25-40, and 42-49 drawn to products of the compound of formula (Ia) wherein **P** is 5-membered heteroaromatic ring, containing one nitrogen and one oxygen, **R2** and **R3** are halogen, and **m** and **n** are 1.

Group VII: Claims 18-22 drawn to the methods of using the compounds of claim 1, wherein the disorder is Alzheimer's disease.

Group VIII: Claims 18-22 drawn to the methods of using the compounds of claim 1, wherein the disorder is Parkinson's Disease.

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Group IX: Claim 23 drawn to the process of making the compound of formula (Ia).

Group X: Claim 23 drawn to the process of making the compound of formula (Ib).

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Again, this list is not exhaustive as it would be impossible under the time constraints due to the sheer volume of subject matter instantly claimed. Therefore, applicant may choose to elect a single invention (a product or a method of use of said product) by identifying another specific embodiment, i.e. another value for P, R2, R3, R4, R5, R6, etc..., not listed in the exemplary groups of the invention and examiner will endeavor to group the same.

The claims herein lack unity of invention under PCT rule 13.1 and 13.2 since, under 37 CFR 1.475(a) the compounds defined in the claims lack a significant structural element qualifying as the special technical feature that defines a contribution over the prior art. The technical feature of the instant claim(s) is defined compound that is shared between formula (Ia) or formula (Ib), i.e. an indole ring substituted with a 5 or 6 membered heterocyclic ring at the P position, which does not define a contribution over the prior art (as can be seen by Zhang et al., U.S. Pat. No. 6,987,110, formula (I) of Claim 1, Column 36, lines 26-67), which corresponds to applicants formula (Ia) and formula (Ib), wherein P is 5 or 6 membered heterocyclic ring. The variables on the core structure vary extensively and when taken as a whole result in vastly different compounds.

Accordingly, unity of invention is considered to be lacking and restriction of the invention in accordance with the rules of unity of invention is considered to be proper.

Additionally, the vastness of the claimed subject matter, and the complications in understanding

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the claimed subject matter imposes a serious burden on any examination of the claimed subject matter.

A telephone call was made to AstraZeneca AB, US Division, because the Attorney of Record is in Sweden, to request an oral election to the above restriction requirement, but did not result in an election being made.

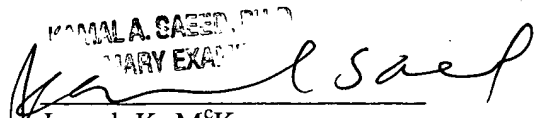
*Telephone Inquiry*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susannah Chung whose telephone number is (571) 272-6098. The examiner can normally be reached on M-F, 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on (571) 272-0699. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Susannah Chung  
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Date: 19 January 2007